



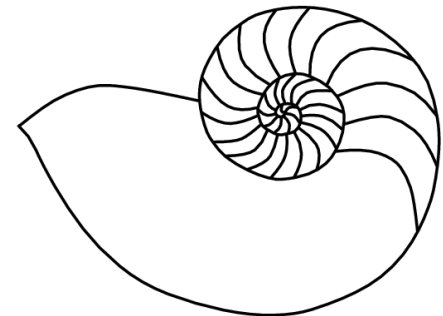
UNIVERSITY
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Computer Science

Linux Command RTFM: rpm(8) & yum(8)

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Package Management

Package	.rpm	.deb
Low-level command	rpm	dpkg
High-level command(s)	yum	apt-get aptitude
GUI(s)	PackageKit pirut	Synaptic
Distros	Red Hat/Fedora SuSE	Debian Ubuntu



In General...

- Can't mix and match between packaging systems
 - No way to do dependency checks across them
- Mostly use high-level command (or GUI)
 - Does necessary dependency checking and installs
- Use low-level commands for special purposes
 - Package listing, verification, etc.
 - When you get stuck

yum(8) Man Page

- NAME

- yum – Yellowdog Updater Modified

- SYNOPSIS

- **yum** [options] [command] [package ...]

- DESCRIPTION

- command is one of:
 - install package1 [package2] [...]
 - update [package1] [package2] [...]
 - check-update
 - upgrade [package1] [package2] [...]
 - remove | erase package1 [package2] [...]
 - list [...]
 - info [...]
 - provides | whatprovides feature1 [feature2] [...]
 - clean [packages | headers | metadata | dbcache | all]
 - groupinstall group1 [group2] [...]
 - groupupdate group1 [group2] [...]
 - grouplist [hidden] [groupwildcard] [...]
 - groupremove group1 [group2] [...]
 - groupinfo group1 [...]
 - search string1 [string2] [...]
 - shell [filename]
 - localinstall rpmfile1 [rpmfile2] [...]
 - localupdate rpmfile1 [rpmfile2] [...]
 - downgrade package1 [package2] [...]
 - help [command]



Yum Demo

- yum search *string*
- yum info *package-name*
- yum install *package-name*
- yum remove *package-name*
- yum update

rpm(8) Man Page

- NAME

- rpm – RPM package manager

- SYNOPSIS

- QUERYING AND VERIFYING PACKAGES:

- rpm {-q|--query} [select-options] [query-options]
 - rpm {-V|--verify} [select-options] [verify-options]
 - rpm --import PUBKEY ...
 - rpm {-K|--checksig} [--nosignature] [--nodigest] PACKAGE_FILE ...

- INSTALLING, UPGRADING, AND REMOVING PACKAGES:

- rpm {-i|--install} [install-options] PACKAGE_FILE ...
 - rpm {-U|--upgrade} [install-options] PACKAGE_FILE ...
 - rpm {-F|--freshen} [install-options] PACKAGE_FILE ...
 - rpm {-e|--erase} [--allmatches] [--nodeps] [--noscripts] [--notriggers] [--repackage] [--test] PACKAGE_NAME ...

Rpm Demo

- `rpm -Uvh package-file`
- `rpm -qi package-name`
- `rpm -qip package-file`
- `rpm -qa --last`
- `rpm -V package-name`
- `rpm -e package-name`
- `rpm -qa --size (using /etc/popt macro)`



Questions?